Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner # :_____ Date: _____
Art Unit: _____ Phone Number 30_____ Serial Number: _____
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

****

STAFF USE ONLY

Searcher: ~~Point of Contact:~~
Searcher Phone #: Alex Wa[illegible]iw
Searcher Location: ~~Technical Info. Specialist~~ CM1 2C14 Tel: ~~308-4491~~
Date Searcher Picked Up: 8-6-01
Date Completed: 8-6-01
Searcher Prep & Review Time: _____
Clerical Prep Time: _____
Online Time: _____

Type of Search

NA Sequence (#)_____
AA Sequence (#)_____
Structure (#) _____
Bibliographic ✓
Litigation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and cost where applicable

STN _____
Dialog _____
Questel/Orbit _____
Dr Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other _____

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     (FILE 'REGISTRY' ENTERED AT 10:17:13 ON 06 AUG 2001)
                DEL HIS Y
                ACT AMPHI/A
                ---------
L1   (         1)SEA FILE=REGISTRY ABB=ON  "POLYETHYLENE GLYCOL
ISOSTEARATE"/CN
L2   (         1)SEA FILE=REGISTRY ABB=ON  "DIGLYCERYL ISOSTEARATE"/CN
L3   (         1)SEA FILE=REGISTRY ABB=ON  "SORBITAN OLEATE"/CN
L4   (         1)SEA FILE=REGISTRY ABB=ON  "SORBITAN ISOSTEARATE"/CN
L5   (      1686)SEA FILE=REGISTRY ABB=ON  143-07-7/CRN
L6   (      3534)SEA FILE=REGISTRY ABB=ON  57-11-4/CRN
L7   (     13106)SEA FILE=REGISTRY ABB=ON  56-81-5/CRN
L8   (        73)SEA FILE=REGISTRY ABB=ON  L7 AND L6 AND L5
L9   (        35)SEA FILE=REGISTRY ABB=ON  L8 AND DI
L10  (         4)SEA FILE=REGISTRY ABB=ON  L9 AND (DIESTER OR DIOCTADEC? OR
DIST
L11  (      1437)SEA FILE=REGISTRY ABB=ON  MONOOCTADEC?
L12  (         7)SEA FILE=REGISTRY ABB=ON  L9 AND L11
L13  (         3)SEA FILE=REGISTRY ABB=ON  L12 AND C51H94O6
L14  (         7)SEA FILE=REGISTRY ABB=ON  L13 OR L10
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                ACT ANIONIC/A
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L17  (        16)SEA FILE=REGISTRY ABB=ON  SUCCIN? (L) ALKENYL
L18  (         1)SEA FILE=REGISTRY ABB=ON  "N-STEAROYL-L-GLUTAMIC ACID"/CN
L19  (         5)SEA FILE=REGISTRY ABB=ON  ("ACYLGLUTAMATE CT 12"/CN OR
"ACYLGLU
L20           27 SEA FILE=REGISTRY ABB=ON  L16 OR L17 OR L18 OR L19
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L22  (         5)SEA FILE=REGISTRY ABB=ON  ("ACYLGLUTAMATE CT 12"/CN OR
"ACYLGLU
L23            6 SEA FILE=REGISTRY ABB=ON  L21 OR L22
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L24           38 S L15 OR L20 OR L23
                ACT POLYMER/A
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L25  (         1)SEA FILE=REGISTRY ABB=ON  "QUATRISOFT LM 200"/CN
L26  (         1)SEA FILE=REGISTRY ABB=ON  "QUATRISOFT POLYMER LM 200"/CN
L27  (         1)SEA FILE=REGISTRY ABB=ON  L25 OR L26
L28  (         1)SEA FILE=REGISTRY ABB=ON  "CRODACEL QM"/CN
L29  (         1)SEA FILE=REGISTRY ABB=ON  "CRODACEL QL"/CN
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L31  (         3)SEA FILE=REGISTRY ABB=ON  L28 OR L29 OR L30
L32            4 SEA FILE=REGISTRY ABB=ON  L31 OR L27
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     FILE 'HCAPLUS' ENTERED AT 10:34:47 ON 06 AUG 2001
L33          609 S L24
L34            4 S ALKENYL (L) (SUCCINATE# OR SUCCINIC ACID#) (L) ALKOXYL?
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L35          189 S ACYLGLUTAM?
L36        36821 S QUATERNARY (L) AMMONIUM?
L37         9252 S L36 (L) SALT#
L38         9990 S L33 OR L34 OR L35 OR L37
L39          107 S NANOEMULSION? OR NANO (L) EMULSION? OR METASTABLE (L)
EMULSIO
L40           13 S L38 AND L39
L41          357 S LIPID# (L) AMPHIPHIL?
L42            8 S L41 AND L39
L43           91 S  L32 OR QUATRISOFT OR CRODACEL OR 8781 OR 9492
L44        14729 S CATION? (L) POLYMER#
L45        14794 S L43 OR L44
L46          203 S L45 AND L38
L47            0 S L46 AND L39
L48           15 S L46 AND EMULSION?
L49            0 S TURBIDITY AND L39
L50         4380 S COSMETIC? (L) EMULS?
L51            1 S L50 AND L46
L52        72968 S 62/SC,SC
L53        93697 S 62/SC,SX
L54           35 S L53 AND L46
L55            3 S L54 AND EMULS?
L56           18 S L55 OR L51 OR L42 OR L40

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L56  ANSWER 1 OF 18  HCAPLUS  COPYRIGHT 2001 ACS
ACCESSION NUMBER:        2001:559553  HCAPLUS
TITLE:                   Nanoemulsion containing amphiphilc
                       lipids and a nonionic polymer and its use in
                         cosmetics
INVENTOR(S):             Douin, Veronique; Cazin, Benedicte; Simonnet, Jean
                         Thierry; Aubrun, Odile
PATENT ASSIGNEE(S):      L'Oreal S.A., Fr.
SOURCE:                  Eur. Pat. Appl., 25 pp.
                         CODEN: EPXXDW
DOCUMENT TYPE:           Patent
LANGUAGE:                French
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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     EP 1120102         A2   20010801       EP 2000-403576   20001218
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRIORITY APPLN. INFO.:                FR 2000-793      A  20000121
AB   Unavailable
IC   ICM  A61K007-00
     ICS  A61K007-06
CC   62 (Essential Oils and Cosmetics)

L56  ANSWER 2 OF 18  HCAPLUS  COPYRIGHT 2001 ACS
ACCESSION NUMBER:        2001:559552  HCAPLUS
TITLE:                   Nanoemulsion containing amphiphilc
                       lipids and a PEG ester and its use in
```

cosmetics
INVENTOR(S): Verite, Claude; Cazin, Benedicte; Douin, Veronique; Aubrun, Odile; Simonnet, Jean Thierry
PATENT ASSIGNEE(S): L'Oreal S.A., Fr.
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1120101	A2	20010801	EP 2000-403574	20001218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: FR 2000-794 A 20000121
AB Unavailable
IC ICM A61K007-00
ICS A61K007-06
CC 62 (Essential Oils and Cosmetics)

L56 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:553219 HCAPLUS
DOCUMENT NUMBER: 133:155164
TITLE: **Nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatologic, ophthalmologic, and/or pharmaceutical uses
INVENTOR(S): Simonnet, Jean-thierry; Sonneville, Odile; Legret, Sylvie
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1025898	A1	20000809	EP 2000-400009	20000104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2788980	A1	20000804	FR 1999-1178	19990202
BR 2000000417	A	20000912	BR 2000-417	20000127
JP 2000226314	A2	20000815	JP 2000-24373	20000201
CN 1270019	A	20001018	CN 2000-101988	20000201

PRIORITY APPLN. INFO.: FR 1999-1178 A 19990202
OTHER SOURCE(S): MARPAT 133:155164
AB Cosmetic, dermatol., ophthalmol., and/or pharmaceutical nanoemulsions with
oil globules <100 nm contain surfactants chosen from alkoxylated alkenyl succinates or alkoxylated alkenyl succinates of glucose and an oil having mol. wt. >400, the ratio of oily phase to surfactant is 2:10. The

nanoemulsion is transparent and stable over storage. A make-up remover fluid contained Acylglutamate HS21 0.5 isocetyl stearate 10, iso-Pr myristate 5, ethoxylated dihexadecenyl succinate 4.5, 1 M sodium hydroxide 3, glycerin 5, dipropylene glycol 10, and water 62%.

IC ICM B01F017-00
ICS A61K007-00

CC 62-4 (Essential Oils and Cosmetics)

ST cosmetic **nanoemulsion alkoxylated alkenyl** glucose **succinate**; dermatol **nanoemulsion alkoxylated alkenyl** glucose **succinate**; pharmaceutical **nanoemulsion alkoxylated alkenyl** glucose **succinate**; ophthalmol **nanoemulsion alkoxylated alkenyl** glucose **succinate**

IT Sulfonates
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkanesulfonates, derivs.; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(animal; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Skin, disease
(dry; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Cosmetics
Drug delivery systems
(**emulsions, nano-**; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lipo; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Cosmetics
(makeups; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Hair preparations
(**nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Alcohols, biological studies
Carbohydrates, biological studies
Glycols, biological studies
Lipids, biological studies
Paraffin oils
Phospholipids, biological studies
Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Drug delivery systems
(ophthalmic; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Phosphatidic acids
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sodium salts; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(vegetable; **nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

IT 110-27-0, Iso Propyl myristate 1256-86-6D, Cholesteryl sulfate, alkali metal salts 2197-63-9D, Dicetyl phosphate, alkali metal salts 4358-16-1D, Cholesteryl phosphate, alkali metal salts 6640-03-5D, Dimyristyl phosphate, alkali metal salts 25339-09-7, Isocetyl stearate 287728-36-3 287728-38-5 287728-39-6 287728-40-9
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**nanoemulsion** from **alkoxylated alkenyl succinates** or **alkoxylated alkenyl succinates** of glucose and its cosmetic, dermatol., ophthalmol. and/or pharmaceutical uses)

REFERENCE COUNT: 1
REFERENCE(S): (1) Oreal; EP 0813860 A 1997 HCAPLUS

L56 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:456698 HCAPLUS
DOCUMENT NUMBER: 133:63637
TITLE: **Nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in the fields of cosmetics, dermatology and/or ophthalmology
INVENTOR(S): Simmonet, Jean-Thierry; Sonneville, Odile; Legret, Sylvie
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1016453	A1	20000705	EP 1999-402855	19991117
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2787703	A1	20000630	FR 1998-16570	19981229
FR 2787703	B1	20010126		
BR 9906206	A	20010206	BR 1999-6206	19991210
JP 2000191503	A2	20000711	JP 1999-371720	19991227
CN 1266679	A	20000920	CN 1999-127471	19991228

PRIORITY APPLN. INFO.: FR 1998-16570 A 19981229
OTHER SOURCE(S): MARPAT 133:63637

AB A nanoemulsion having oil globules with av. size <100 nm contains (1) a surfactant, which is solid at .ltoreq.45.degree.C, chosen from ethoxylated fatty ethers or esters, and (2) an oil having mol. wt. >400, where the wt. ratio of oil phase to surfactant is 2-10:1. The surfactant can be an ethoxylated ether of behenic alc. (5-30 ethoxy units) or stearyl alc. (2 ethoxy units), an ethoxylated ester of stearic acid (40 ethoxy units) or behenic acid (8 ethoxy units), or their mixts. The nanoemulsion is transparent and stable with turbidity 60-600 NTU. It can be used in cosmetics and topical pharmaceuticals or ophthamol. formulations. The nanoemulsion can be used for moisturizing dry skin and mucous membranes, treatment of hair, and as collyrium (eye lotion) for treatment of the eyes. In an example, a make-up removing liq. contained Brij 72 4.5, disodium N-stearoyl L-glutamic acid (Acylglutamate HS21) 0.5, isocetyl stearate 10, iso-Pr myristate 5, glycerin 5, dipropylene glycol 10 and water 65%. The transparent gel had globule size of 47 nm and turbidity of 222 NTU.

IC ICM B01F017-00
ICS A61K007-00
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
ST cosmetic **nanoemulsion** ethoxylated fatty ether ester; dermatol **nanoemulsion** ethoxylated fatty ether ester; ophthalmol **nanoemulsion** ethoxylated fatty ether ester; fatty ether ester ethoxylated surfactant **nanoemulsion**
IT Sulfonates
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkanesulfonates; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT **Lipids**, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**amphiphilic**, anionic, cationic, sulfonated; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Fats and Glyceridic oils, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(avocado; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Skin, disease
(dry; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Cosmetics
Drug delivery systems
(emulsions, **nanoemulsions**; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Fatty acids, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ethoxylated, C16-22; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fatty, ethoxylated, C16-22; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Amines, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fatty, salts; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lipo, salts; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Cosmetics
(makeups; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Hair preparations
Perfumes
(**nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Alcohols, biological studies
Carbohydrates, biological studies
Fats and Glyceridic oils, biological studies
Glycols, biological studies
Hydrocarbon oils
Phospholipids, biological studies
Polysiloxanes, biological studies
Quaternary ammonium compounds, biological studies
Soybean oil
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Emulsions
(**nanoemulsions**; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Drug delivery systems
(opthalmic; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Phosphatidic acids
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sodium salts; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Cosmetics
(solns.; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Drug delivery systems
(topical; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(vegetable; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT 9005-00-9, Polyethylene glycol, monostearyl ether
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Brij 72; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT 53058-35-8, Polyethylene glycol, monobehenate
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Compritol HD5 ATO; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT 26636-40-8, Polyethylene glycol, monobehenyl ether
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Nikkol BB10; **nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

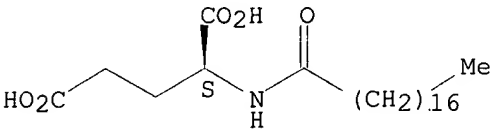
IT 56-81-5, Glycerin, biological studies 58-95-7, Vitamin E acetate 64-17-5, Ethanol, biological studies 110-27-0, Isopropyl myristate 1256-86-6D, Cholesterol sulfate, alkali metal salts 2197-63-9D, Dicetyl phosphate, alkali metal salts 4358-16-1D, Cholesterol phosphate, alkali metal salts 6640-03-5D, Dimyristyl phosphate, alkali metal salts 9004-99-3, Polyethylene glycol, monostearate 17301-53-0, Behenyltrimethylammonium chloride 25265-71-8, Dipropylene glycol 25339-09-7, Isocetyl stearate **38079-62-8, Acylglutamate** HS21

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT **38079-62-8, Acylglutamate** HS21
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on ethoxylated fatty ethers or esters and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

REFERENCE COUNT: 2
REFERENCE(S): (1) L'Oreal; EP 0842652 A 1998 HCAPLUS
(2) Vesifact Ag; EP 0852941 A 1998 HCAPLUS

L56 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:441331 HCAPLUS
DOCUMENT NUMBER: 133:63629
TITLE: **Nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatology, pharmaceuticals and/or ophthalmology
INVENTOR(S): Simmonet, Jean-Thierry; Legret, Sylvie; Sonneville, Odile
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1013338	A1	20000628	EP 1999-402856	19991117
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2787728	A1	20000630	FR 1998-16370	19981223
FR 2787728	B1	20010126		
JP 2000191502	A2	20000711	JP 1999-361818	19991220

PRIORITY APPLN. INFO.: FR 1998-16370 A 19981223
OTHER SOURCE(S): MARPAT 133:63629

AB A nanoemulsion having oil globules with av. size <100 nm contains an anionic surfactant chosen from fatty esters of phosphoric acid and its ethoxylated derivs., and an oil having mol. wt. >400; the ratio of the oil phase to surfactant is 2:10. The nanoemulsion is transparent and stable. The nanoemulsion is used for moisturizing dry skin and mucous, treatment of hair, and as collyrium for the treatment of eye. A make-up remover contained disodium N-stearoyl L-glutamic acid (Acylglutamate HS21) 0.5, isocetyl stearate 10, iso-Pr palmitate 5, glycerin 5, dipropylene glycol 10, 1N sodium hydroxide 5, Hostaphat CG120 4.5, and water 60%. The transparent gel had globule size of 57 nm and turbidity of 250 NTU.

IC ICM B01F017-00
ICS A61K007-00

CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63

ST cosmetic **nanoemulsion** fatty ester phosphoric acid; dermatol **nanoemulsion** fatty ester phosphoric acid; ophthalmol **nanoemulsion** fatty ester phosphoric acid

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(animal; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Surfactants
(anionic; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Skin, disease
(dry; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Cosmetics
(**emulsions, nano-; nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fatty, esters with phosphoric acid; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Cosmetics
(gels; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(lipo, alkali salts; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Cosmetics
(makeup removers; **nanoemulsion** based on fatty esters of

phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Cosmetics
(makeups; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Hair preparations
(**nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Alcohols, biological studies
Carbohydrates, biological studies
Fats and Glyceridic oils, biological studies
Glycols, biological studies
Paraffin oils
Phospholipids, biological studies
Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Drug delivery systems
(ophthalmic; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Cosmetics
(solns.; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(vegetable; **nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

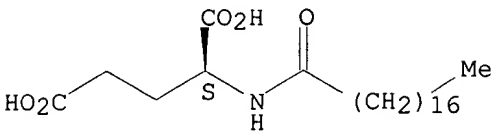
IT 110-27-0, Isopropylmyristate 1256-86-6D, Cholesterol sulfate, alkali salts 2197-63-9D, Dicetylphosphate, alkali salts 4358-16-1D, Cholesterol phosphate, alkali salts 6640-03-5D, Dimyristylphosphate, alkali salts 7632-05-5, Sodium phosphate 7664-38-2D, Phosphoric acid, fatty esters 25339-09-7, Isocetyl stearate **38079-62-8**, (**Acylglutamate** HS21) 39471-52-8, Stearyl phosphate 56831-62-0 68814-13-1, Cetyl phosphate 132324-29-9, Isostearyl phosphate 217087-62-2, Hostaphat CG120
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

IT **38079-62-8**, (**Acylglutamate** HS21)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of phosphoric acid and uses thereof in the fields of cosmetics, dermatol., pharmaceuticals and/or ophthalmol.)

RN 38079-62-8 HCAPLUS

CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

REFERENCE COUNT: 2
REFERENCE(S): (1) L'Oreal; EP 0842652 A 1998 HCAPLUS
(2) Vesifact Ag; EP 0852941 A 1998 HCAPLUS

L56 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:420746 HCAPLUS
DOCUMENT NUMBER: 133:48692
TITLE: **Nanoemulsion** based on fatty esters of glycerol and uses thereof in the fields of cosmetics, dermatology and/or ophthalmology
INVENTOR(S): Simonnet, Jean Thierry; Sonneville, Odile; Legret, Sylvie
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1010416	A1	20000621	EP 1999-402915	19991123
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2787326	A1	20000623	FR 1998-15950	19981217
FR 2787326	B1	20010126		
BR 9907333	A	20010206	BR 1999-7333	19991208
JP 2000178132	A2	20000627	JP 1999-353752	19991213
CN 1265923	A	20000913	CN 1999-126428	19991216

PRIORITY APPLN. INFO.: FR 1998-15950 A 19981217
OTHER SOURCE(S): MARPAT 133:48692

AB A nanoemulsion having oil globules with av. size <100 nm contains a surfactant, which is solid at .ltoreq.45.degree., chosen from fatty acid esters of glycerol and an oil having mol. wt. >400; the ratio of the oil phase to surfactant is 2:10. The nanoemulsion is transparent and stable. The nanoemulsion is used for moisturizing dry skin and mucous, treatment of hair, and as collyrium for the treatment of eye. A make-up liq. contained Nikkol Decaglyn 3S 4.5, disodium N-stearoyl L-glutamic acid (Acylglutamate HS21) 0.5, isocetyl stearate 10, iso-Pr myristate 5, glycerin 5, dipropylene glycol 10, and water 65%. The transparent gel had

globule size of 50 nm and turbidity of 176 NTU.
IC ICM A61K007-00
ICS B01F017-00
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
ST cosmetic **nanoemulsion** fatty acid ether sugar; dermatol **nanoemulsion** fatty acid ether sugar; ophthalmol **nanoemulsion** fatty acid ether sugar
IT Sulfonates
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkanesulfonates, derivs.; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(animal; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Skin, disease
(dry; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Cosmetics
(**emulsions, nano-; nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Fatty acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(esters, with glycerol; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(lipo, alkali salts; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Cosmetics
(makeup removers; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Cosmetics
(makeups; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Hair preparations
Surfactants
(**nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)
IT Alcohols, biological studies
Fats and Glyceridic oils, biological studies
Glycols, biological studies
Jojoba oil
Paraffin oils
Phospholipids, biological studies
Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)
(**nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Drug delivery systems
(ophthalmic; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Cosmetics
(solns.; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

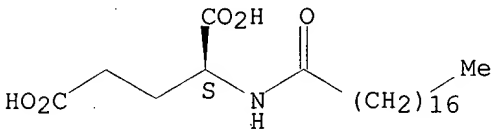
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(vegetable; **nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT 56-81-5D, Glycerin, fatty acid esters 110-27-0, Isopropylmyristate 1256-86-6D, Cholesterol sulfate, alkali salts 2197-63-9D, Dicetylphosphate, alkali salts 4358-16-1D, Cholesterol phosphate, alkali salts 6640-03-5D, Dimyristylphosphate, alkali salts 7632-05-5, Sodium phosphate 12694-22-3, Diglycerol monostearate 12709-64-7, Nikkol Decaglyn 3S 12764-60-2, Decaglycerin distearate 25339-09-7, Isocetyl stearate **38079-62-8**, (**Acylglutamate** HS21) 79777-30-3, Decaglycerin monostearate 95461-64-6, Decaglycerol pentastearate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT **38079-62-8**, (**Acylglutamate** HS21)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of glycerol and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

REFERENCE COUNT: 1
REFERENCE(S): (1) L'Oreal; EP 0728460 A 1996 HCAPLUS

L56 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:420745 HCAPLUS
DOCUMENT NUMBER: 133:48691
TITLE: **Nanoemulsion** based on fatty esters of

oxyethylated or non- oxyethylated sorbitan and uses thereof in the fields of cosmetics, dermatology and/or ophthalmology

INVENTOR(S): Simmonet, Jean-Thierry; Sonneville, Odile; Legret, Sylvie
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1010415	A1	20000621	EP 1999-402875	19991119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2787325	A1	20000623	FR 1998-15949	19981217
FR 2787325	B1	20010126		
BR 9907331	A	20010206	BR 1999-7331	19991207
JP 2000178131	A2	20000627	JP 1999-353750	19991213
CN 1265879	A	20000913	CN 1999-126429	19991216

PRIORITY APPLN. INFO.: FR 1998-15949 A 19981217
OTHER SOURCE(S): MARPAT 133:48691

AB A nanoemulsion having oil globules with av. size <100 nm contains (1) a surfactant, which is solid at .ltoreq.45.degree., chosen from fatty esters of sorbitan or ethoxylated sorbitan, (2) an oil having mol. wt. >400, (3) and an amphiphilic ionic lipid chosen from alkali salts of dicetyl or dimyristyl phosphate, alkali salts of cholesterol sulfate, and cholesterol phosphate, lipoaminoadids, sodium phosphates, amphiphilic cationic lipids and derivs. of alkyl sulfonic acid; the ratio of the oil phase to surfactant is 2:10. The surfactant used is chosen from sorbitan monostearate, sorbitan monopalmitate, and ethoxylated sorbitan tristearate. The nanoemulsion is transparent and stable. The nanoemulsion is used for moisturizing dry skin and mucous, treatment of hair, and as collyrium for the treatment of eye. A make-up fluid contained Tween-65 4.5, disodium N-stearoyl L-glutamic acid (Acylglutamate HS21) 0.5, isocetyl stearate 10, iso-Pr palmitate 5, glycerin 5, dipropylene glycol 10, and water 65%. The transparent gel had globule size of 44 nm and turbidity of 168 NTU.

IC ICM A61K007-00
ICS B01F017-00
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
ST cosmetic **nanoemulsion** sorbitan fatty acid ester; dermatol **nanoemulsion** sorbitan fatty acid ester; ophthalmol **nanoemulsion** sorbitan fatty acid ester
IT Sulfonates
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkanesulfonates, derivs.; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof

in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(animal; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(avocado; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Skin, disease
(dry; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Cosmetics
(**emulsions, nano-; nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Fatty acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(esters; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(lipo, alkali salts; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Cosmetics
(makeups; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Hair preparations
Surfactants
(**nanoemulsion** based on fatty esters of oxyethylated or non-oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Alcohols, biological studies
Fats and Glyceridic oils, biological studies
Glycols, biological studies
Lipids, biological studies
Paraffin oils
Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of oxyethylated or non-oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Drug delivery systems
(ophthalmic; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT Cosmetics
(solns.; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

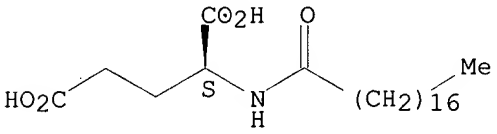
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(vegetable; **nanoemulsion** based on fatty esters of oxyethylated or non- oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT 56-86-0D, Glutamic acid, acyl derivs., salts 142-91-6, Isopropyl palmitate 1256-86-6D, Cholesterol sulfate, alkali salts 1338-41-6, Sorbitan monostearate 2197-63-9, Dicetylphosphate 4358-16-1D, Cholesterol phosphate, alkali salts 6640-03-5D, Dimyristylphosphate, alkali salts 7632-05-5, Sodium phosphate 9005-71-4, Tween 65 17301-53-0, Behenyltrimethylammonium chloride 25265-71-8, Dipropylene glycol 25339-09-7, Isocetyl stearate 26266-57-9, Sorbitan monopalmitate, **38079-62-8**, (**Acylglutamate** HS21)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of oxyethylated or non-oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

IT **38079-62-8**, (**Acylglutamate** HS21)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty esters of oxyethylated or non-oxyethylated sorbitan and uses thereof in fields of cosmetics, dermatol. and/or ophthalmol.)

RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

REFERENCE COUNT: 1
REFERENCE(S): (1) L'Oreal; EP 0728460 A 1996 HCAPLUS

L56 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:420744 HCAPLUS
DOCUMENT NUMBER: 133:48690
TITLE: **Nanoemulsion** based on mixed esters of a fatty acid or alcohol, of a carboxylic acid and glycerol, and uses thereof in the cosmetic, dermatological and/or ophtalmological fields
INVENTOR(S): Sonneville, Odile; Simonnet, Jean-Thierry; Legret,

Sylvie
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1010414	A1	20000621	EP 1999-402837	19991116
EP 1010414	B1	20010404		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2787026	A1	20000616	FR 1998-15764	19981214
FR 2787026	B1	20010112		
AT 200218	E	20010415	AT 1999-402837	19991116
JP 2000178129	A2	20000627	JP 1999-352422	19991210

PRIORITY APPLN. INFO.: FR 1998-15764 A 19981214
OTHER SOURCE(S): MARPAT 133:48690

AB A nanoemulsion having oil globules with av. size <100 nm contains a surfactant, which is solid at .ltoreq.45.degree., chosen from esters of fatty acids or fatty alcs., carboxylic acid and glycerol, and an oil having mol. wt. >400; the ratio of the oil phase to surfactant is 2:10. The nanoemulsion is transparent and stable. The nanoemulsion is used for moisturizing dry skin and mucous, treatment of hair, and as collyrium for the treatment of eye. A make-up fluid contained Imwitor 780K 4.5, disodium N-stearoyl L-glutamic acid (Acylglutamate HS21) 0.5, isocetyl stearate 20, iso-Pr palmitate 5, glycerin 5, dipropylene glycol 10, and water 65%. The transparent gel had globule size of 57 nm and turbidity of 251 NTU.

IC ICM A61K007-00
ICS B01F017-00
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
ST cosmetic **nanoemulsion** fatty acid alc carboxylate; dermatol **nanoemulsion** fatty acid glycerol carboxylate; ophthalmol **nanoemulsion** fatty acid alc carboxylate
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(animal; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)
IT Skin, disease
(dry; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)
IT Cosmetics
(**emulsions, nano-; nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)
IT Fatty acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(esters; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fatty, esters; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT Carboxylic acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hydroxy; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(lipo, alkali salts; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT Cosmetics
(makeups; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT Hair preparations
Surfactants
(**nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT Alcohols, biological studies
Fats and Glyceridic oils, biological studies
Glycols, biological studies
Lipids, biological studies
Paraffin oils
Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT Drug delivery systems
(ophthalmic; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic,
dermatol. and/or ophtalmol. fields)

IT Cosmetics
(solns.; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

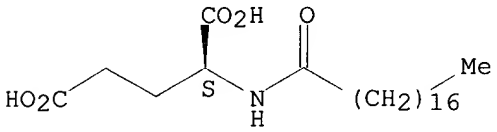
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(vegetable; **nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic,
dermatol. and/or ophtalmol. fields)

IT 50-21-5D, Lactic acid, esters 56-81-5, 1,2,3-Propanetriol, biological studies 60-33-3D, Linolic acid, esters 77-92-9D, Citric acid, ester 79-14-1D, Glycolic acid, esters 110-15-6D, Succinic acid, esters 112-80-1D, Oleic acid, esters 142-91-6, Isopropyl palmitate 1256-86-6D, Cholesterol sulfate, alkali salts 2197-63-9D, Dicetylphosphate, alkali salts 4358-16-1D, Cholesterol phosphate, alkali salts 6640-03-5D, Dimyristylphosphate, alkali salts 6915-15-7D, Malic acid, esters 7632-05-5, Sodium phosphate 11099-07-3, Glyceryl stearate 25339-09-7, Isocetyl stearate 27195-16-0, Sucrose distearate **38079-62-8**, (**Acylglutamate** HS21) 66085-00-5, Imwitor 780K 69552-98-3, Glyceryl succinate 98113-15-6, Glycerin citrate 110343-04-9, Glycerin lactate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

IT **38079-62-8**, (**Acylglutamate** HS21)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on mixed esters of fatty acid or alc., of carboxylic acid and glycerol, and uses thereof in cosmetic, dermatol. and/or ophtalmol. fields)

RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

REFERENCE COUNT: 1
REFERENCE(S): (1) L'Oreal; EP 0728460 A 1996 HCAPLUS

L56 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:420743 HCAPLUS
DOCUMENT NUMBER: 133:63593
TITLE: **Nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in the cosmetical, dermatological and/or ophtalmological fields
INVENTOR(S): Simonnet, Jean-Thierry; Sonneville, Odile; Legret, Sylvie
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent

LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1010413	A1	20000621	EP 1999-402836	19991116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2787027	A1	20000616	FR 1998-15765	19981214
FR 2787027	B1	20010112		
BR 9907330	A	20010206	BR 1999-7330	19991206
JP 2000178130	A2	20000627	JP 1999-352423	19991210
CN 1257704	A	20000628	CN 1999-126145	19991213

PRIORITY APPLN. INFO.: FR 1998-15765 A 19981214
OTHER SOURCE(S): MARPAT 133:63593

AB A nanoemulsion having oil globules with av. size <100 nm contains a surfactant, which is solid at .ltoreq.45.degree., chosen from fatty acid esters or ethers of sugars and an oil having mol. wt. >400; the ratio of the oil phase to surfactant is 2:10. The nanoemulsion is transparent and stable. The nanoemulsion is used for moisturizing dry skin and mucous, treatment of hair, and as collyrium for the treatment of eye. A make-up gel contained Crodesta F50 4.5, disodium N-stearoyl L-glutamic acid (Acylglutamate HS21) 0.5, isocetyl stearate 20, C11-13 isoparaffin 2.5, isohexadecane 2.5, glycerin 5, dipropylene glycol 10, and water 55%. The transparent gel had globule size of 45 nm and turbidity of 260 NTU.

IC ICM A61K007-00
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
ST cosmetic **nanoemulsion** fatty acid ether sugar; dermatol **nanoemulsion** fatty acid ether sugar; ophthalmol **nanoemulsion** fatty acid ether sugar
IT Isoalkanes
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(C11-13; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
IT Glycosides
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkyl polyglycosides; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(animal; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(avocado; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
IT Skin, disease

(dry; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Cosmetics
(**emulsions, nano-; nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Fatty acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(esters, with sugars; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Carbohydrates, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fatty acid esters and esters; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Cosmetics
(gels; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(lipo, alkali salts; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Cosmetics
(makeups; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Hair preparations
Surfactants
(**nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

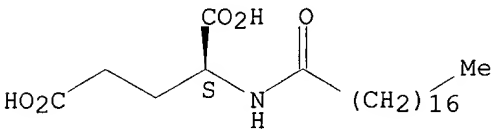
IT Alcohols, biological studies
Fats and Glyceridic oils, biological studies
Glycols, biological studies
Jojoba oil
Paraffin oils
Phospholipids, biological studies
Polysiloxanes, biological studies
Soybean oil
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Drug delivery systems
(ophthalmic; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Cosmetics
(solns.; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)

IT Perfumes
(toilet waters; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(vegetable; **nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
IT 50-99-7D, Glucose, fatty acid esters and ethers 57-48-7D, Fructose, fatty acid esters and ethers 57-50-1D, Sucrose, fatty acid esters and ethers 58-95-7, Vitamin e acetate 69-79-4D, Maltose, fatty acid esters
and ethers 110-27-0, Isopropylmyristate 1256-86-6D, Cholesterol sulfate, alkali salts 2197-63-9D, Dicetylphosphate, alkali salts 3149-68-6D, fatty acid esters and ethers 4358-16-1D, Cholesterol phosphate, alkali salts 6640-03-5D, Dimyristylphosphate, alkali salts 7632-05-5, Sodium phosphate 25168-73-4, Sucrose monostearate 25339-09-7, Isocetyl stearate 25618-55-7, Polyglycerol 27195-16-0, Sucrose distearate 27923-63-3, Sucrose tristearate **38079-62-8**, (**Acylglutamate** HS21) 60908-77-2, Isohexadecane 115469-31-3, Crodesta f50 157175-98-9, Tego care 450 188070-46-4
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
IT **38079-62-8**, (**Acylglutamate** HS21)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** based on fatty acid esters or ethers of sugar and uses thereof in cosmetical, dermatol. and/or ophtalmol. fields)
RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

REFERENCE COUNT: 1
REFERENCE(S): (1) L'Oreal; EP 0728460 A 1996 HCAPLUS

L56 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:596842 HCAPLUS
DOCUMENT NUMBER: 131:233383
TITLE: Compositions containing protein hydrolyzate alkenylsuccinate ester salts and shampoos containing

them

INVENTOR(S): Nakajima, Toru; Fukuda, Hajime; Watanabe, Yoshihiro; Otsuki, Naomi; Hayashi, Shigeaki; Tokuyama, Hiroshi

PATENT ASSIGNEE(S): Nippon Starch Refining Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11255626	A2	19990921	JP 1998-78372	19980310

AB Shampoos contain anionic surfactants, cationized polymers, and the compns.
contg. protein hydrolyzate alkenylsuccinate ester salts prepd. by reaction
of protein hydrolyzates with alkenylsuccinic anhydrides in the presence of
alkali catalysts. Reaction of keratin hydrolyzate with octenylsuccinic anhydride in the presence of NaOH gave a product showing good emulsifying and foaming properties. A shampoo contg. the keratin hydrolyzate octenylsuccinate ester Na salt 5.0, C12-13 aliph. alc. ethoxylate sulfate ester Na salt 15.0, cationized cellulose 0.5, and H2O 79.5 wt.% was formulated.

IC ICM A61K007-075
ICS A61K007-00

CC **62-3** (Essential Oils and Cosmetics)

ST protein hydrolyzate alkenylsuccinate ester salt shampoo; keratin octenylsuccinate sodium salt **emulsifier** shampoo

IT Sulfonates
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(1-alkene; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)

IT Amides, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(N-(hydroxyalkyl); shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)

IT Protein hydrolyzates
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkenylsuccinate esters, salts; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)

IT Amine oxides
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkyldimethyl; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)

IT Polyoxyalkylenes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkylphenyl ethers; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Surfactants
(amphoteric; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Surfactants
(anionic; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Surfactants
(**cationic**; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Amides, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(coco, N,N-bis(hydroxyethyl); shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Fatty acids, biological studies
Polyoxyalkylenes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(derivs.; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(ethoxylated; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Castor oil
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hydrogenated, ethoxylated; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Caseins, biological studies
Collagens, biological studies
Keratins
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrolyzates, alkenylsuccinate esters, salts; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Syrups (sweetening agents)
(hydrolyzed starch, reduced; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Surfactants
(nonionic; shampoos contg. protein hydrolyzate alkenylsuccinate ester

salts, anionic surfactants, and **cationized polymers**
)
IT Wheat
(protein hydrolyzates; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT **Emulsifying** agents
Shampoos
(shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT **Quaternary ammonium** compounds, biological studies
Soaps
Sulfobetaines
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(shampoos contg. protein hydrolyzate alkenylsuccinate ester **salts**, anionic surfactants, and **cationized polymers**)
IT Protein hydrolyzates
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(silk, alkenylsuccinate esters, salts; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT Protein hydrolyzates
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(soya, alkenylsuccinate esters, salts; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT 36574-66-0D, N-coco acyl derivs.
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(coco amidopropylbetaine; shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT 56-40-6D, Glycine, alkyl esters 56-41-7D, Alanine, salts with fatty acid
derivs. 98-11-3D, Benzenesulfonic acid, alkyl derivs., salts 112-02-7,
Cetyltrimethylammonium chloride 5138-18-1D, Sulfosuccinic acid, alkyl esters, salts 9000-30-0D, Guar gum, **cationic** derivs. 9004-34-6D, Cellulose, **cationic** derivs. 9004-54-0D, Dextran, **cationic** derivs. 9005-63-4D, Polyoxyethylene sorbitan, fatty acid esters 12441-09-7D, Sorbitan, fatty acid esters 25322-68-3D, Polyethylene glycol, alkylphenyl ethers 25322-68-3D, Polyethylene glycol, derivs. 27613-77-0D, Polyethylene glycol monoacetate, monoalkyl ethers, salts 34870-92-3D, Polyethylene glycol monosulfate, monoalkyl ethers, salts 59149-04-1D, N-Carboxymethyl-N-hydroxyethylimidazolinium betaine, 2-alkyl derivs. 148252-87-3D, alkyl ethers, salts
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)
IT 25377-73-5DP, Dodecenylsuccinic anhydride, esters with keratin hydrolyzates, sodium salts 26680-54-6DP, Octenylsuccinic anhydride, esters with protein hydrolyzates, salts

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)

IT 102-71-6, reactions 1310-58-3, Potassium hydroxide, reactions 1310-73-2, Sodium hydroxide, reactions
RL: RCT (Reactant)
(shampoos contg. protein hydrolyzate alkenylsuccinate ester salts, anionic surfactants, and **cationized polymers**)

L56 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:653630 HCAPLUS
DOCUMENT NUMBER: 129:335482
TITLE: The nonionic amphoteric surfactant and aminosilicone for preparation of cosmetic emulsion
INVENTOR(S): Cervantes, Frederic; Cazin, Benedicte; Simonnet, Jean-Thierry
PATENT ASSIGNEE(S): L'Oreal S. A., Fr.
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10265326	A2	19981006	JP 1998-67407	19980317
JP 3078256	B2	20000821		
FR 2760970	A1	19980925	FR 1997-3283	19970318
FR 2760970	B1	20000310		
EP 879589	A1	19981125	EP 1998-400450	19980225
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 9856451	A1	19980924	AU 1998-56451	19980304
AU 698457	B2	19981029		
ZA 9801865	A	19981006	ZA 1998-1865	19980305
CN 1196928	A	19981028	CN 1998-107846	19980317
BR 9801355	A	19990629	BR 1998-1355	19980317
US 5925341	A	19990720	US 1998-42557	19980317
RU 2142481	C1	19991210	RU 1998-105500	19980317
JP 2000095629	A2	20000404	JP 1999-306102	19980317

PRIORITY APPLN. INFO.: FR 1997-3283 A 19970318
JP 1998-67407 A3 19980317

AB The cosmetic emulsion that has an av. size of oil drop of .ltoreq.150 nm and that is stable for .gtoreq.1 mo at 0-45.degree. is an oil drop-in-oil nanoemulsion. The wt. ratio of the amphoteric surfactant phase to oil phase is 2-10. The amphoteric surfactant is selected from silicone surfactants such as Amodimethicone.

IC ICM A61K007-00
ICS A61K007-00; A61K007-06

CC 62-4 (Essential Oils and Cosmetics)

ST skin prepn cosmetic **nanoemulsion** amphoteric surfactant

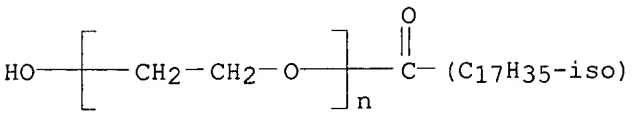
IT Cosmetic emulsions
(**nanoemulsion**; nonionic amphoteric surfactant and aminosilicone for prepn. of cosmetic emulsion)

IT 17301-53-0 31900-57-9D, .alpha.,.omega.-quaternary ammonium-contg.

56002-14-3
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nonionic amphoteric surfactant and aminosilicone for prepn. of cosmetic emulsion)

IT **56002-14-3**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nonionic amphoteric surfactant and aminosilicone for prepn. of cosmetic emulsion)

RN 56002-14-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxoisooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L56 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:351743 HCAPLUS
DOCUMENT NUMBER: 129:45107
TITLE: Detergent cosmetic compositions for cleaning and conditioning hair and skin
INVENTOR(S): Cauwet-Martin, Daniele
PATENT ASSIGNEE(S): L'oreal, Fr.; Cauwet-Martin, Daniele
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9822087	A1	19980528	WO 1997-FR1815	19971010
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2755850	A1	19980522	FR 1996-13977	19961115
FR 2755851	A1	19980522	FR 1997-3280	19970318
FR 2755851	B1	19981224		
AU 9747090	A1	19980610	AU 1997-47090	19971010
EP 939619	A1	19990908	EP 1997-909389	19971010
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 2000504344	T2	20000411	JP 1998-520846	19971010

PRIORITY APPLN. INFO.: FR 1996-13977 19961115
FR 1997-3280 19970318
WO 1997-FR1815 19971010

OTHER SOURCE(S): MARPAT 129:45107

AB Novel detergent and conditioning compns. contain, in a cosmetically acceptable medium, (A) a washing base, i.e., one or more surfactants, and (B) a conditioning system including an oil-in-water nanoemulsion in which the oil globule av. size is <150 nm. The oil-in-water nanoemulsion contains a nonionic lipidic amphiphile phase contg. .gtoreq.1 nonionic lipidic amphiphile which is liq. at ambient temps. <45.degree.. The invention is useful for hair and skin cleaning and care, and esp. in conditioning shampoos. Thus, a conditioning shampoo was formulated from polyethylene glycol lauryl ether sulfate Na salt, Dehyton AB 30 (cocoylbetaine), and a nanoemulsion contg. polyethylene glycol isostearate, Acylglutamate HS 21, avocado oil, and EtOH in the lipidic phase and glycerin and demineralized water in the second phase. The shampoo exhibits good foaming and hair washed with the shampoo exhibited good properties.

IC ICM A61K007-50

CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 38, 46

ST detergent cosmetic compn **nanoemulsion**; conditioning shampoo **nanoemulsion** compn; surfactant lipidic **nanoemulsion** cosmetic

IT Betaines
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(coco alkyldimethyl, Dehyton AB30; cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT Anionic surfactants
Cationic surfactants
Conditioning shampoos
Cosmetic emulsions
Nonionic surfactants
(cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT Fatty amines
Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT Polyoxyalkylenes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(esters, nonionic **amphiphilic lipid** in **nanoemulsion**; cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(surfactants; cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT 156309-06-7, Dimethylsilanediol-oxirane block copolymer 156618-32-5D, Dimethylsilanediol-oxirane graft copolymer, trimethylsilyl-terminated 208192-10-3D, trimethylsilyl-terminated
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion** contg.; cosmetic contg. surfactants and

oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT **38079-62-8, Acylglutamate** HS21 **56002-14-3,** Polyethylene glycol isostearate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion**-contg.; cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

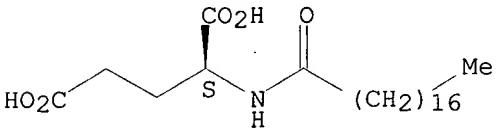
IT 12441-09-7D, Sorbitan, esters 25322-68-3D, esters 25618-55-7D, Polyglycerol, esters 31694-55-0D, Polyethylene glycol glycerol ether, esters
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nonionic **amphiphilic lipid** in **nanoemulsion** ; cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT 9004-82-4
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(surfactant; cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

IT **38079-62-8, Acylglutamate** HS21 **56002-14-3,** Polyethylene glycol isostearate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**nanoemulsion**-contg.; cosmetic contg. surfactants and oil-in-water **nanoemulsions** for cleaning and conditioning hair and skin)

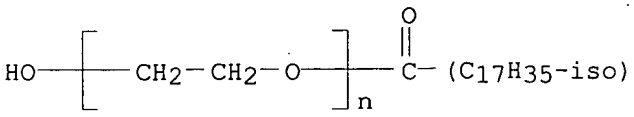
RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

RN 56002-14-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxoisooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L56 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:344317 HCAPLUS
DOCUMENT NUMBER: 129:32127
TITLE: Oil-in-water **nanoemulsions** based on liquid non-ionic **amphiphilic lipids** for keratinic fibers
INVENTOR(S): Cauwet-Martin, Daniele
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 842653	A1	19980520	EP 1997-402315	19971002
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
FR 2755849	A1	19980522	FR 1996-13979	19961115
FR 2755855	A1	19980522	FR 1997-3282	19970318
FR 2755855	B1	19981224		
CA 2217039	AA	19980515	CA 1997-2217039	19971021
JP 10147506	A2	19980602	JP 1997-307198	19971110
AU 9745122	A1	19980521	AU 1997-45122	19971111
AU 694396	B2	19980716		
CN 1187346	A	19980715	CN 1997-125298	19971114
RU 2139031	C1	19991010	RU 1997-119735	19971114
BR 9705381	A	19990406	BR 1997-5381	19971117

PRIORITY APPLN. INFO.: FR 1996-13979 A 19961115
FR 1997-3282 A 19970318
OTHER SOURCE(S): MARPAT 129:32127
AB The title nanoemulsions have oil globules of av. size <150 nm, contain an amphiphilic lipid phase contg. .gtoreq.1 nonionic amphiphilic lipid with is liq. at ambient temps. >45.degree., and has wt. ratio of the oil to the amphiphilic lipid phase 2-10. The nonionic amphiphilic lipid may be selected from silicone surfactants and polyol esters (i.e., esters of polyethylene glycol, sorbitan, ethoxylated glycerol, or polyglycerols). The emulsions may be used in products for cleaning, treating, or maintenance of hair, eyelashes, or eyebrows. Thus, polyethylene glycol isostearate,N-stearoyl L-glutamate disodium salt (Acylglutamate HS21) were mixed with avocado oil and ethanol and then combined with a water-glycerin mixt. and homogenized. The resulting oil-in-water nanoemulsion had oil globules .apprx.63 nm.
IC ICM A61K007-00
CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 38, 46
ST **nanoemulsion** oil in water hair product; **amphiphilic lipid nanoemulsion** hair care; fatty ester **lipid nanoemulsion** hair care; silicone surfactant **lipid nanoemulsion** hair care; eyelash product **amphiphilic lipid nanoemulsion**; eyebrow product **amphiphilic**

lipid nanoemulsion

IT **Lipids**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**amphiphilic**; oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT Polyoxyalkylenes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fatty esters; oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT Cosmetic **emulsions**
(**nano-**, for eyelashes and eyebrows; oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nonionic surfactants; oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT Amphoteric surfactants
Anionic surfactants
Hair preparations
Oil-in-water emulsions
(oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT Animal fats
Essential oils
Hydrocarbon oils
Vegetable oils
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT Polyethers, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oils; oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT Fatty acid esters
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(with polyols, **amphiphilic lipids**; oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

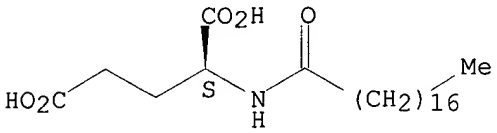
IT 12441-09-7D, Sorbitan, fatty esters 25322-68-3D, fatty esters 25618-55-7D, Polyglycerol, fatty esters 31694-55-0D, Polyethylene glycol glycerol ether, fatty esters **38079-62-8**, **Acylglutamate** HS21 **56002-14-3**, Polyethylene glycol isostearate 156309-06-7D, Dimethylsilanediol-oxirane block copolymer, trimethylsilyl-terminated

156618-32-5D, Dimethylsilanediol-oxirane graft copolymer, trimethylsilyl-terminated 207844-39-1D, trimethylsilyl-terminated
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

IT **38079-62-8, Acylglutamate** HS21 **56002-14-3,** Polyethylene glycol isostearate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oil-in-water **nanoemulsions** contg. nonionic **amphiphilic lipids** for hair, eyelash, and eyebrow products)

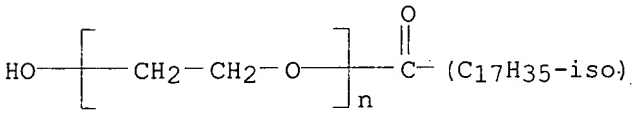
RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

RN 56002-14-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxoisooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L56 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:344316 HCAPLUS
DOCUMENT NUMBER: 129:32159
TITLE: Oil-in-water **nanoemulsions** based on nonionic and cationic **amphiphilic lipids** and their use in hair preparations and cosmetics
INVENTOR(S): Restle, Serge; Cauwet-Martin, Daniele
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 842652	A1	19980520	EP 1997-402295	19971001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
FR 2755853	A1	19980522	FR 1996-13978	19961115
FR 2755854	A1	19980522	FR 1997-3281	19970318
FR 2755854	B1	19981224		
CA 2217339	AA	19980515	CA 1997-2217339	19971024
ZA 9709588	A	19980731	ZA 1997-9588	19971027
AU 691148	B1	19980507	AU 1997-45123	19971111
US 6039936	A	20000321	US 1997-969796	19971113
JP 10147505	A2	19980602	JP 1997-313668	19971114
CN 1193504	A	19980923	CN 1997-125297	19971114
RU 2141813	C1	19991127	RU 1997-119736	19971114
BR 9705382	A	19990406	BR 1997-5382	19971117
PRIORITY APPLN. INFO.:			FR 1996-13978 A	19961115
			FR 1997-3281 A	19970318

OTHER SOURCE(S): MARPAT 129:32159

AB The title nanoemulsions contain oil globules with av. size <150 nm and have an amphiphilic lipid phase characterized in that the lipid phase contains .gtoreq.1 nonionic amphiphilic lipid which is liq. at ambient temps. <45.degree. and .gtoreq.1 cationic amphiphilic lipid. The wt. ratio of the quantity of oil to the amphiphilic lipid phase is 2-10, preferably 3-6. The nanoemulsions may be used in cosmetic and hair products. Thus, polyethylene glycol isostearate and behenyltrimethylammonium chloride were mixed in avocado oil and the homogenized with demineralized water and glycerin to give an oil-in-water nanoemulsion having oil globules .apprx.63 nm. An after-shampooing rinse was formulated using the prepd. nanoemulsion. Hair treated with the compn. exhibited good detangling, was soft and shiny.

IC ICM A61K007-00

CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 38, 46

ST oil in water **nanoemulsion** cosmetics; nonionic cationic **amphiphilic lipid nanoemulsion**; hair product **amphiphilic lipid nanoemulsion**

IT Polyoxyalkylenes, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fatty acid esters; oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

IT Cosmetics
Makeups
(makeup removers; oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

IT Cosmetic emulsions
Hair conditioners
Hair preparations
Nonionic surfactants
Oil-in-water emulsions
Shampoos
Topical drug delivery systems
(oil-in-water **nanoemulsions** contg. nonionic and cationic

amphiphilic lipids for cosmetics and hair prepns.)

IT Animal fats
Essential oils
Hydrocarbon oils
Lipids, biological studies
Polyethers, biological studies
Quaternary ammonium compounds, biological studies
Vegetable oils
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

IT Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(surfactants; oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

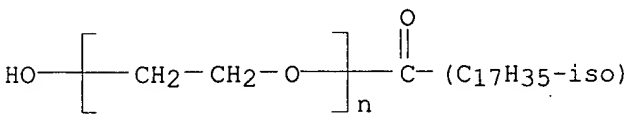
IT Fatty acid esters
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(with polyols; oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

IT 17301-53-0, Behenyltrimethylammonium chloride **56002-14-3**, Polyethylene glycol isostearate 207845-30-5
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

IT 109-76-2D, 1,3-Propanediamine, diquaternary derivs. 288-32-4D, Imidazole, quaternary derivs. 12441-09-7D, Sorbitan, fatty acid esters 25322-68-3D, fatty acid esters 25618-55-7D, Polyglycerol, fatty acid esters 31694-55-0D, Polyethylene glycol glycerol ether, fatty acid esters
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

IT **56002-14-3**, Polyethylene glycol isostearate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oil-in-water **nanoemulsions** contg. nonionic and cationic **amphiphilic lipids** for cosmetics and hair prepns.)

RN 56002-14-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxoisooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L56 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:479334 HCAPLUS
DOCUMENT NUMBER: 127:113133
TITLE: Transparent **nanoemulsion** based on silicone surfactants, and its use in cosmetics
INVENTOR(S): Simonnet, Jean-Thierry
PATENT ASSIGNEE(S): L'Oreal S. A., Fr.
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

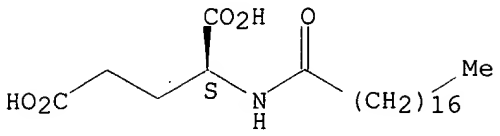
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 780114	A1	19970625	EP 1996-402548	19961126
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
FR 2742676	A1	19970627	FR 1995-15291	19951221
FR 2742676	B1	19980206		
BR 9604724	A	19980901	BR 1996-4724	19961219
JP 09175933	A2	19970708	JP 1996-341882	19961220
JP 3040355	B2	20000515		
CN 1156586	A	19970813	CN 1996-117923	19961220
US 6120778	A	20000919	US 1996-772724	19961223

PRIORITY APPLN. INFO.: FR 1995-15291 A 19951221
OTHER SOURCE(S): MARPAT 127:113133

AB Transparent oil/in/water cosmetic emulsions where the av. size of oil globules is <100 nm contain silicone surfactants. A cosmetic liq. for greasy skin contained silone surfactant (DC 2-5698) 5, dodecamethylcyclohexasiloxane 6, decamethylcyclopentasiloxane 6, silicone gum Q2-1403 3, abs. ethanol 15, glycerin 5, and water q.s. 100%.

IC ICM A61K007-00
ICS A61K007-48
CC 62-4 (Essential Oils and Cosmetics)
ST transparent cosmetic **nanoemulsion** silicone surfactant
IT **Lipids**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**amphiphilic** and ionic; transparent oil/in/water cosmetic emulsions contg. silicone surfactants)
IT 1256-86-6D, Cholesterol sulfate, alkali salts 2197-63-9D, Dicetylphosphate, alkali salts 4358-16-1D, Cholesterol phosphate, alkali salts 6640-03-5D, Dimyristylphosphate, alkali salts **38079-62-8**, **Acylglutamate** hs21
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(transparent oil/in/water cosmetic emulsions contg. silicone surfactants)
IT **38079-62-8**, **Acylglutamate** hs21
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(transparent oil/in/water cosmetic emulsions contg. silicone surfactants)
RN 38079-62-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 2 Na

L56 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:390442 HCAPLUS
DOCUMENT NUMBER: 127:39480
TITLE: **Emulsion**-type hair preparations containing nonionic **polymers**, salts, and **cationic** surfactants
INVENTOR(S): Oya, Toru; Kawai, Yasuhiro
PATENT ASSIGNEE(S): Sunstar K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09118609	A2	19970506	JP 1995-277508	19951025

OTHER SOURCE(S): MARPAT 127:39480

AB Title prepns., which show good adsorption and permeation to hair, contain water-sol. (in)org. salts 0.001-5, cationic surfactants 0.01-10, and nonionic polymers 0.01-10 wt.%. A hair rinse was prepd. from stearyltrimethylammonium chloride 2.0, polyoxyethylene glycol 0.5, NaCl 0.1, cetanol 4.0, and H2O to 100.0 wt.%.

IC ICM A61K007-06
ICS A61K007-08

CC **62-3** (Essential Oils and Cosmetics)

ST hair prepn **polymer** salt surfactant; nonionic **polymer** hair prepn **emulsion**; **cationic** surfactant hair prepn **emulsion**

IT **Cationic** surfactants
(**emulsion**-type hair prepns. contg. nonionic **polymers**, salts, and **cationic** surfactants)

IT Nitrates, biological studies
Phosphates, biological studies
Polymers, biological studies
Polyoxyalkylenes, biological studies
Polysiloxanes, biological studies
Salts, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**emulsion**-type hair prepns. contg. nonionic **polymers**

, salts, and **cationic** surfactants)
IT Hair preparations
(**emulsions**; **emulsion**-type hair prepns. contg. nonionic **polymers**, salts, and **cationic** surfactants)
IT **Cosmetic emulsions**
(hair prepns.; **emulsion**-type hair prepns. contg. nonionic **polymers**, salts, and **cationic** surfactants)
IT **Quaternary ammonium** compounds, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(surfactants; **emulsion**-type hair prepns. contg. nonionic **polymers**, **salts**, and **cationic** surfactants)
IT 72-17-3, Sodium lactate 77-92-9D, salts 107-64-2, Distearyldimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 127-09-3, Sodium acetate 7446-70-0, Aluminum chloride, biological studies 7487-88-9, Magnesium sulfate, biological studies 7647-14-5, Sodium chloride (NaCl), biological studies 7647-15-6, Sodium bromide, biological studies 7757-82-6, Sodium sulfate, biological studies 7786-30-3, Magnesium chloride, biological studies 9003-11-6 9016-00-6, Dimethyl siloxane, sru 9038-95-3 25322-68-3 25322-69-4, Polypropylene glycol 31900-57-9, Dimethylsilanediol homopolymer
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**emulsion**-type hair prepns. contg. nonionic **polymers**, salts, and **cationic** surfactants)

L56 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1996:634951 HCAPLUS
DOCUMENT NUMBER: 125:256771
TITLE: Transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics
INVENTOR(S): Ribier, Alain; Simonnet, Jean-Thierry; Legret, Sylvie
PATENT ASSIGNEE(S): Oreal S. A., Fr.
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 728460	A1	19960828	EP 1996-400210	19960130
EP 728460	B1	19970827		
R: DE, ES, GB, IT				
FR 2730932	A1	19960830	FR 1995-2268	19950227
FR 2730932	B1	19970404		
ES 2110854	T3	19980216	ES 1996-400210	19960130
JP 08245371	A2	19960924	JP 1996-38272	19960226
JP 2962678	B2	19991012		
CN 1138456	A	19961225	CN 1996-106000	19960226
US 5753241	A	19980519	US 1996-607353	19960226
BR 9600628	A	19971230	BR 1996-628	19960227

PRIORITY APPLN. INFO.: FR 1995-2268 19950227
AB A transparent oil/in/water emulsion with av. globule size of .ltoreq.100 nm comprising amphiphilic nonionic lipids for use in cosmetics is

disclosed. A cosmetic moisturizer contained .alpha.-butylglucoside cocoate 4.5, Acylgutamate HS21 (N-stearoyl L-glutamic acid disodium salt) 0.5, jojoba oil 5, avocado oil 5, volatile silicone 6, stearylheptanoate-stearylcaprylate 2, vitamin E acetate 1, ethanol 15, glycerin 6, sodium hyaluronate 0.10, and water q.s. 100%. The transparent emulsion had globules of 52 nm and transparency of 58%.

IC ICM A61K007-00
CC 62-4 (Essential Oils and Cosmetics)
ST transparent **nanoemulsion amphiphilic** nonionic **lipid** cosmetic; Acylgutamate HS21 cosmetic moisturizer transparent emulsion
IT Fatty acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(C8-22; transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT Sulfonic acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkyl derivs.; transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT **Lipids**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(**amphiphilic** nonionic; transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT Cosmetics
(transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT Essential oils
Glycols, biological studies
Hydrocarbons, biological studies
Perfumes
Phospholipids, biological studies
Vitamins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT Cosmetics
(emulsions, transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT Alcohols
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(ethoxylated, transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT Acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(inorg., esters with alcs.; transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)
IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(lipo, transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)

IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(lower, transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)

IT Cosmetics
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(moisturizers, transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)

IT Phosphatidic acids
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(sodium salts, transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)

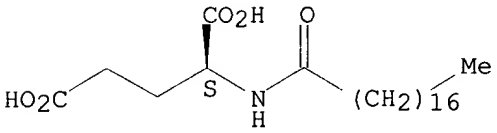
IT 12385-15-8, Carbide
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(halogenated; transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)

IT 1256-86-6D, Cholesterol sulfate, alk. salts 2197-63-9D, Dicetyl phosphate, alk. salts **3397-16-8** 4358-16-1D, Cholesterol phosphate, alk. salts 6640-03-5D, Dimyristyl phosphate, alk. salts 12441-09-7, Sorbitan 25618-55-7, Polyglycerol 31694-55-0
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)

IT **3397-16-8**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(transparent **nanoemulsion** based on **amphiphilic** nonionic **lipids** and use in cosmetics)

RN 3397-16-8 HCAPLUS
CN L-Glutamic acid, N-(1-oxooctadecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L56 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:14642 HCAPLUS
DOCUMENT NUMBER: 120:14642
TITLE: Water-in-oil-type hair preparations
INVENTOR(S): Kanbe, Tetsuya
PATENT ASSIGNEE(S): Shiseido Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05246824	A2	19930924	JP 1992-354522	19921216

PRIORITY APPLN. INFO.: JP 1991-355123 19911220

AB Water-in-oil-type hair prepns., which impart smoothness and softness to the hair without giving tackiness, contain (i) water-swelling clay minerals modified with quaternary ammonium salt-type cationic surfactants and nonionic surfactants, (ii) water-sol. polymers, and (iii) R12R2SiO(SiOR12)nSiR12R2 (R1 = Me, Ph; R2 = Me, OH; n = 3000-20,000). Isopar M 10.0, di-Me siloxane 5.0, distearyldimethylammonium chloride 0.8, diglyceryl diisostearate 2.0, dextrin fatty acid ester 1.5, H2O 73.9, glycerin 4.0, polyethylene glycol 0.5, Smectone 1.2, carboxyvinyl polymer 0.5, carrageenan 0.5, and NaOH 0.1 wt.% were mixed to give a hair prepn., which was stable at 50.degree. for .gtoreq.1 mo.

IC ICM A61K007-06

CC **62-3** (Essential Oils and Cosmetics)

ST hair **emulsion** siloxane polymer; surfactant clay mineral hair **emulsion**; quaternary ammonium mineral hair **emulsion**

IT Quaternary ammonium compounds, biological studies
RL: BIOL (Biological study)
(clay minerals modified with nonionic surfactants and, hair **emulsions** contg. siloxanes and polymers and)

IT Siloxanes and Silicones, biological studies
RL: BIOL (Biological study)
(hair **emulsions** contg. polymers and surfactant-modified clay minerals and, stable)

IT Clay minerals
RL: BIOL (Biological study)
(surfactant-modified, hair **emulsions** contg. siloxanes and polymers and, stable)

IT Vinyl compounds, polymers
RL: BIOL (Biological study)
(carboxy-contg., polymers, hair **emulsions** contg. siloxanes and surfactant-modified clay minerals and, stable)

IT Surfactants
(**cationic, quaternary ammonium salts**, clay minerals modified with nonionic surfactants and, hair **emulsions** contg. siloxanes and **polymers** and)

IT Hair preparations
(**emulsions**, water-in-oil, contg. siloxanes and polymers and surfactant-modified clay minerals)

IT Fatty acids, esters
RL: BIOL (Biological study)
(esters, with dextrin, clay minerals modified with **quaternary ammonium salts** and, hair **emulsions** contg. siloxanes and polymers and)

IT Surfactants
(nonionic, clay minerals modified with **quaternary ammonium salts** and, hair **emulsions** contg. siloxanes and polymers and)

IT 107-64-2, Distearyldimethylammonium chloride 17301-53-0, Behenyltrimethylammonium chloride

RL: BIOL (Biological study)
(clay minerals modified with nonionic surfactants and, hair **emulsions** contg. siloxanes and polymers and)

IT 9004-53-9D, Dextrin, fatty acid esters 67938-21-0, Diglyceryl diisostearate
RL: BIOL (Biological study)
(clay minerals modified with **quaternary ammonium salts** and, hair **emulsions** contg. siloxanes and polymers and)

IT 117502-86-0, Smectone HR
RL: BIOL (Biological study)
(hair **emulsions** contg. siloxanes and polymers and, stable)

IT 9000-01-5, Gum arabic 9000-07-1, Carrageenan 9004-32-4, Sodium CMC
RL: BIOL (Biological study)
(hair **emulsions** contg. siloxanes and surfactant-modified clay minerals and, stable)

IT 1340-68-7, Bentone 12001-31-9, Bentone 38
RL: BIOL (Biological study)
(surfactant-modified, hair **emulsions** contg. siloxanes and polymers and, stable)

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=> d his

     (FILE 'WPIDS' ENTERED AT 11:06:09 ON 06 AUG 2001)
               DEL HIS Y
L1           25 S NANOEMULS? OR NANOEMUL?
L2           32 S NANOEMULS? OR NANO EMUL?
L3            2 S METASTABLE EMULS?
L4           32 S L1 OR L2
L5            5 S METASTABLE(3A)  EMULS?
L6           37 S L2 OR L5
L7           20 S L6 AND D21/DC
L8           86 S NANO (L) EMULS?
L9          108 S L8 OR L2 OR L5
L10          47 S L9 AND D21/DC
L11          18 S  POLYETHYLENE GLYCOL (3A) ISOSTEAR? OR (DIGLYCERYL OR DI
GLYC
L12         145 S (POLYGLYCER? OR POLY GLYCER?) (4A) (?LAURATE? OR ?STEARATE?
)
L13         430 S SORBITAN (3A) (OLEATE OR ISOSTEAR? OR ISO STEAR?)
L14           9 S ALKYL ETHER CITRAT? OR ALKOXY? (3A) ALKENYL (3A)(
SUCCINATE#
L15       21544 S STEAROYL (2W) GLUTAMIC OR ACYLGLUTAMATE# OR ACYL GLUTAMATE?
O
L16       22123 S L11 OR L12 OR L13 OR L14 OR L15
L17         122 S LIPID# (4A) (AMPHIPHIL?)
L18           6 S QUATRISOFT OR CRODACEL OR AMERCHOL OR 8781 OR 9492
L19           0 S L18 AND L9
L20       22230 S L16 OR L17
L21           1 S L20 AND L18
L22           8 S L9 AND TURBID?
L23           8 S L22 AND D21/DC
L24        5343 S CATION? (3A) POLYMER#
L25         640 S L24 AND L20
L26           0 S L25 AND L9
L27           9 S L20 AND L9
L28          10 S L27 OR L23 OR L21

=> d wp 1-10

L28  ANSWER 1 OF 10  WPIDS COPYRIGHT 2001   DERWENT INFORMATION LTD
AN   2000-526015 [48]   WPIDS
DNC  C2000-156374
TI   Oil-in-water nanoemulsions for cosmetic, dermatological, and
     ophthalmic use contain an alkoxylated alkenyl
     succinate, alkoxylated glucose alkenyl
     succinate, or alkoxylated methyl glucose
     succinate as surfactant.
DC   A25 A26 A96 B07 D21 E19
IN   LEGRET, S; SIMONNET, J; SONNEVILLE, O; SIMMONNET, J; SIMONNET, J T
PA   (OREA) L'OREAL SA
CYC  30
PI   EP 1025898    A1 20000809 (200048)* FR   11p
        R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
           RO SE SI
     FR 2788980    A1 20000804 (200048)
```

BR 2000000417 A 20000912 (200051)
CA 2297560 A1 20000802 (200052) FR
JP 2000226314 A 20000815 (200054) 7p
CN 1270019 A 20001018 (200103)
KR 2000057867 A 20000925 (200122)
ADT EP 1025898 A1 EP 2000-400009 20000104; FR 2788980 A1 FR 1999-1178 19990202; BR 2000000417 A BR 2000-417 20000127; CA 2297560 A1 CA 2000-2297560 20000131; JP 2000226314 A JP 2000-24373 20000201; CN 1270019 A CN 2000-101988 20000201; KR 2000057867 A KR 2000-4979 20000201
PRAI FR 1999-1178 19990202
AB EP 1025898 A UPAB: 20001001
NOVELTY - Oil-in-water **nanoemulsions**, in which the average size of the oil particles is below 100 nm, contains an **alkoxylated alkenyl succinate**, **alkoxylated** glucose **alkenyl succinate**, or **alkoxylated** methyl glucose **succinate** as surfactant, and at least one oil with a molecular weight above 400, the weight ratio of oil to surfactant being 2-10.

USE - The **nanoemulsions** may be used in cosmetics, dermatology, or ophthalmics, applied to the skin, hair, scalp, and eyes. They have a beneficial effect on the skin and hair and may also be used as carriers for other active materials such as vitamins, anti-glaucoma agents, antibiotics, anti-allergics, anti-inflammatories, and antiviral agents.

ADVANTAGE - The emulsions are stable, non-sticky, and transparent in appearance.

Dwg.0/0

L28 ANSWER 2 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-467426 [41] WPIDS
DNC C2000-140890
TI Oil-in-water **nanoemulsion** useful as cosmetic, dermatological, opthalmological or pharmaceutical carrier includes **alkyl ether citrate** surfactant.
DC A96 B05 **D21** E19
IN LEGRET, S; SIMONNET, J; SONNEVILLE, O; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 27
PI EP 1020219 A1 20000719 (200041)* FR 9p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2788449 A1 20000721 (200041)
JP 2000212030 A 20000802 (200041) 6p
EP 1020219 B1 20010321 (200117) FR
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
KR 2000052504 A 20000825 (200121)
DE 69900066 E 20010426 (200130)
ADT EP 1020219 A1 EP 1999-402914 19991123; FR 2788449 A1 FR 1999-408 19990114;
JP 2000212030 A JP 2000-4013 20000112; EP 1020219 B1 EP 1999-402914 19991123; KR 2000052504 A KR 1999-58632 19991217; DE 69900066 E DE 1999-600066 19991123, EP 1999-402914 19991123
FDT DE 69900066 E Based on EP 1020219
PRAI FR 1999-408 19990114
AB EP 1020219 A UPAB: 20000831

NOVELTY - An oil-in-water **nanoemulsion** with a droplet size of less than 100 nm contains an oil (I) with a molecular weight above 400 and an **alkyl ether citrate** surfactant (II), the weight ratio of oil phase to (II) being 2-10:1.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for production of the composition by mixing the aqueous phase with the oil phase under vigorous agitation at 10-80 deg. C and homogenizing the mixture at 60-180 MPa.

USE - The emulsion is useful as a carrier for topical compositions, especially ophthalmological or pharmaceutical compositions, dermatological composition for treating dry skin, and cosmetic compositions for care and/or moisturizing of the skin, mucosa and/or scalp, for care, treatment and/or make-up of the skin, face and/or scalp or for care and/or treatment of the hair.

ADVANTAGE - The emulsion has a good storage stability and can contain large amounts of oil while maintaining a good transparency.

Dwg.0/0

L28 ANSWER 3 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-444338 [39] WPIDS
DNC C2000-135339
TI **Nanoemulsion** comprising surfactant and at least one oil with a molecular weight of more than 400, useful as cosmetic composition or for preparing dermatological or ophthalmological composition.
DC A25 A96 B07 D18 **D21** E19
IN LEGRET, S; SIMMONNET, J T; SONNEVILLE, O; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 27
PI EP 1018363 A1 20000712 (200039)* FR 11p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2788007 A1 20000707 (200039)
JP 2000198711 A 20000718 (200040) 8p
EP 1018363 B1 20010321 (200117) FR
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
KR 2000052462 A 20000825 (200121)
DE 69900065 E 20010426 (200130)
ADT EP 1018363 A1 EP 1999-402913 19991123; FR 2788007 A1 FR 1999-31 19990105; JP 2000198711 A JP 1999-361819 19991220; EP 1018363 B1 EP 1999-402913 19991123; KR 2000052462 A KR 1999-57227 19991213; DE 69900065 E DE 1999-600065 19991123, EP 1999-402913 19991123
FDT DE 69900065 E Based on EP 1018363
PRAI FR 1999-31 19990105
AB EP 1018363 A UPAB: 20000818
NOVELTY - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with lipid globules having an average size of less than 100 nm contains:

(1) a surfactant such as copolymers of ethylene oxide and propylene oxide blocks; and

(2) at least one oil with a molecular weight of more than 400 and at a lipid phase/surfactant weight ratio of 2-10.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a topical composition comprising the above described composition;

(2) an ophthalmic support comprising the above described composition;

(3) a pharmaceutical composition comprising the above described composition;

(4) a cosmetic method for the care and/or hydration of the skin, mucosa and/or scalp by applying the above described composition; and

(5) the preparation of the composition by mixing an aqueous phase and a lipid phase at 10-80 deg. C and homogenizing the mixture at 6 x 107-18 x 107 Pa.

USE - The **nanoemulsion** is useful as a cosmetic composition for the care, treatment and/or make-up of the skin and/or scalp, and the care and/or treatment of hair. The **nanoemulsion** is useful for preparing a dermatological composition for treating dry skin, or an ophthalmological composition.

ADVANTAGE - The **nanoemulsion** is storage stable, may contain a large amount of oil as well as keeping a good transparency and cosmetic properties.

Dwg.0/0

L28 ANSWER 4 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-432927 [38] WPIDS
DNC C2000-131694
TI **Nanoemulsion** comprising surfactant such as fatty esters of glycerol, and at least one oil with a molecular weight of more than 400, useful as cosmetic composition or for preparing dermatological or ophthalmological composition.
DC A96 B05 **D21** E19
IN LEGRET, S; SIMONNET, J; SONNEVILLE, O; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 30
PI EP 1010416 A1 20000621 (200038)* FR 11p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2787326 A1 20000623 (200038)
JP 2000178132 A 20000627 (200042) 7p
CA 2292797 A1 20000617 (200044) FR
CN 1265923 A 20000913 (200062)
BR 9907333 A 20010206 (200111)
KR 2000048108 A 20000725 (200116)
ADT EP 1010416 A1 EP 1999-402915 19991123; FR 2787326 A1 FR 1998-15950 19981217; JP 2000178132 A JP 1999-353752 19991213; CA 2292797 A1 CA 1999-2292797 19991216; CN 1265923 A CN 1999-126428 19991216; BR 9907333 A BR 1999-7333 19991208; KR 2000048108 A KR 1999-57231 19991213
PRAI FR 1998-15950 19981217
AB EP 1010416 A UPAB: 20000811
NOVELTY - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with the lipid globules having an average size of less than 100 nm contains:

(1) a surfactant (solid at up to 45 deg. C) such as fatty esters of glycerol; and

(2) at least one oil with a molecular weight of more than 400, at a lipid phase/surfactant weight ratio of 2-10.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a topical composition comprising the above described composition;
(2) an ophthalmic support comprising the above described composition;
(3) a pharmaceutical composition comprising the above described composition;
(4) a cosmetic method for the care and/or hydration of the skin, mucosa and/or scalp by applying the above described composition; and
(5) the preparation of the composition by mixing an aqueous phase and a lipid phase at 10-80 deg. C and homogenizing the mixture at 6 x 107-18 x 107 Pa.

USE - The **nanoemulsion** is useful as a cosmetic composition for the care, treatment and/or make-up of the skin and/or scalp, and the care and/or treatment of hair. The **nanoemulsion** is useful for preparing a dermatological composition for treating dry skin, or an ophthalmological composition (all claimed).

ADVANTAGE - The **nanoemulsion** is storage stable, may contain a large amount of oil as well as keeping a good transparency and cosmetic properties.

Dwg.0/0

L28 ANSWER 5 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-432926 [38] WPIDS
DNC C2000-131693
TI **Nanoemulsion** comprising surfactant and at least one oil with a molecular weight of more than 400, useful as cosmetic composition or for preparing dermatological or ophthalmological composition.
DC A96 B05 **D21** E19
IN LEGRET, S; SIMONNET, J; SONNEVILLE, O; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 27
PI EP 1010414 A1 20000621 (200038)* FR 10p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2787026 A1 20000616 (200038)
JP 2000178129 A 20000627 (200042) 7p
KR 2000047999 A 20000725 (200115)
EP 1010414 B1 20010404 (200120) FR
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
DE 69900074 E 20010510 (200134)
ADT EP 1010414 A1 EP 1999-402837 19991116; FR 2787026 A1 FR 1998-15764 19981214; JP 2000178129 A JP 1999-352422 19991210; KR 2000047999 A KR 1999-55800 19991208; EP 1010414 B1 EP 1999-402837 19991116; DE 69900074 E DE 1999-600074 19991116, EP 1999-402837 19991116
FDT DE 69900074 E Based on EP 1010414
PRAI FR 1998-15764 19981214
AB EP 1010414 A UPAB: 20000811
NOVELTY - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with lipid globules having an average size of less than 100 nm contains:
(1) a surfactant such as mixed esters of fatty acids or alcohols, carboxylic acid and glycerol; and
(2) at least one oil with a molecular weight of more than 400 and at a lipid phase/surfactant weight ratio of 2-10.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a topical composition comprising the above described composition;

(2) an ophthalmic support comprising the above described composition;

(3) a pharmaceutical composition comprising the above described composition;

(4) a cosmetic method for the care and/or hydration of the skin, mucosa and/or scalp by applying the above described composition; and

(5) the preparation of the composition by mixing an aqueous phase and a lipid phase at 10-80 deg. C and homogenizing the mixture at 6 x 107-18 x 107 Pa.

USE - The **nanoemulsion** is useful as a cosmetic composition for the care, treatment and/or make-up of the skin and/or scalp, and the care and/or treatment of hair. The **nanoemulsion** is useful for preparing a dermatological composition for treating dry skin, or an ophthalmological composition.

ADVANTAGE - The **nanoemulsion** is storage stable, may contain a large amount of oil as well as keeping a good transparency and cosmetic properties.

Dwg.0/0

L28 ANSWER 6 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-425152 [37] WPIDS
DNC C2000-128962
TI **Nanoemulsion** comprising surfactant and at least one oil with a molecular weight of more than 400, useful as cosmetic composition or for preparing dermatological or ophthalmological composition.
DC A25 A96 B07 **D21** E19
IN LEGRET, S; SIMONNET, J; SONNEVILLE, O; SIMMONET, J; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 30
PI EP 1016453 A1 20000705 (200037)* FR 11p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2787703 A1 20000630 (200037)
JP 2000191503 A 20000711 (200038) 8p
CA 2293177 A1 20000629 (200045) FR
CN 1266679 A 20000920 (200063)
BR 9906206 A 20010206 (200111)
KR 2000052471 A 20000825 (200121)
ADT EP 1016453 A1 EP 1999-402855 19991117; FR 2787703 A1 FR 1998-16570 19981229; JP 2000191503 A JP 1999-371720 19991227; CA 2293177 A1 CA 1999-2293177 19991221; CN 1266679 A CN 1999-127471 19991228; BR 9906206 A BR 1999-6206 19991210; KR 2000052471 A KR 1999-57463 19991214
PRAI FR 1998-16570 19981229
AB EP 1016453 A UPAB: 20000807
NOVELTY - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with lipid globules having an average size of less than 100 nm contains:

(1) a surfactant such as ethoxylated fatty esters or ethers; and

(2) at least one oil with a molecular weight of more than 400 and at a lipid phase/surfactant weight ratio of 2-10.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a topical composition comprising the above described composition;

(2) an ophthalmic support comprising the above described composition;

(3) a pharmaceutical composition comprising the above described composition;

(4) a cosmetic method for the care and/or hydration of the skin, mucosa and/or scalp by applying the above described composition; and

(5) the preparation of the composition by mixing an aqueous phase and a lipid phase at 10-80 deg. C and homogenizing the mixture at 6 x 107-18 x 107 Pa.

USE - The **nanoemulsion** is useful as a cosmetic composition for the care, treatment and/or make-up of the skin and/or scalp, and the care and/or treatment of hair. The **nanoemulsion** is useful for preparing a dermatological composition for treating dry skin, or an ophthalmological composition.

ADVANTAGE - The **nanoemulsion** is storage stable, may contain a large amount of oil as well as keeping a good transparency and cosmetic properties.

Dwg.0/0

L28 ANSWER 7 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-414541 [36] WPIDS
DNC C2000-125751
TI **Nanoemulsion** comprising surfactant and at least one oil with a molecular weight of more than 400, useful as cosmetic composition or for preparing dermatological or ophthalmological composition.
DC B05 **D21** E19
IN LEGRET, S; SIMMONET, J; SONNEVILLE, O; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 27
PI EP 1013338 A1 20000628 (200036)* FR 9p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2787728 A1 20000630 (200036)
JP 2000191502 A 20000711 (200038) 7p
KR 2000062214 A 20001025 (200124)
ADT EP 1013338 A1 EP 1999-402856 19991117; FR 2787728 A1 FR 1998-16370 19981223; JP 2000191502 A JP 1999-361818 19991220; KR 2000062214 A KR 1999-59292 19991220
PRAI FR 1998-16370 19981223
AB EP 1013338 A UPAB: 20000801
NOVELTY - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with the lipid globules having an average size of less than 100 nm contains:

(1) a surfactant (solid at up to 45 deg. C) such as fatty esters of phosphoric acids and their ethoxylated derivatives;

(2) at least one oil with a molecular weight of more than 400, at a lipid phase/surfactant weight ratio of 2-10.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a topical composition comprising the above described composition;

(2) an ophthalmic support comprising the above described composition;

(3) a pharmaceutical composition comprising the above described composition;

(4) a cosmetic method for the care and/or hydration of the skin,

mucosa and/or scalp by applying the above described composition; and
(5) the preparation of the composition by mixing an aqueous phase and
a lipid phase at 10-80 deg. C and homogenizing the mixture at 6 x 107-18 x
107 Pa.
USE - The **nanoemulsion** is useful as a cosmetic composition for the care, treatment and/or make-up of the skin and/or scalp, and the care and/or treatment of hair. The **nanoemulsion** is useful for preparing a dermatological composition for treating dry skin, or an ophthalmological composition (claimed).
ADVANTAGE - The **nanoemulsion** is storage stable, may contain a large amount of oil as well as keeping a good transparency and cosmetic properties.
Dwg.0/0

L28 ANSWER 8 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-414363 [36] WPIDS
DNC C2000-125649
TI **Nanoemulsion** comprising surfactant, oil with a molecular weight of more than 400 and ionic **amphiphilic lipid**, useful as cosmetic composition or for preparing dermatological or ophthalmological composition.
DC A96 B05 **D21** E19
IN LEGRET, S; SIMONNET, J; SONNEVILLE, O; SIMMONET, J; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 30
PI EP 1010415 A1 20000621 (200036)* FR 10p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2787325 A1 20000623 (200036)
JP 2000178131 A 20000627 (200036) 7p
CA 2292796 A1 20000617 (200044) FR
CN 1265879 A 20000913 (200062)
BR 9907331 A 20010206 (200111)
KR 2000048105 A 20000725 (200116)
ADT EP 1010415 A1 EP 1999-402875 19991119; FR 2787325 A1 FR 1998-15949 19981217; JP 2000178131 A JP 1999-353750 19991213; CA 2292796 A1 CA 1999-2292796 19991216; CN 1265879 A CN 1999-126429 19991216; BR 9907331 A BR 1999-7331 19991207; KR 2000048105 A KR 1999-57228 19991213
PRAI FR 1998-15949 19981217
AB EP 1010415 A UPAB: 20000801
NOVELTY - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with the lipid globules having an average size of less than 100 nm contains:
(1) a surfactant (solid at up to 45 deg. C);
(2) at least one oil with a molecular weight of more than 400; and
(3) at least one ionic **amphiphilic lipid** .
DETAILED DESCRIPTION - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with the lipid globules having an average size of less than 100 nm contains:
(1) a surfactant (solid at up to 45 deg. C) such as sorbitan fatty esters optionally oxyethylenated;
(2) at least one oil with a molecular weight of more than 400; and
(3) at least one ionic **amphiphilic lipid** such as alkaline salts of dicetyl- and dimyristylphosphate, alkaline salts of cholesterol sulfate or phosphate, lipoaminoacids, sodium salts of

phosphatidic acid, cationic **amphiphilic lipid** or alkylsulfonic derivatives at a lipid phase/surfactant weight ratio of 2-10.

INDEPENDENT CLAIMS are also included for:

(1) a topical composition comprising the above described composition;

(2) an ophthalmic support comprising the above described composition;

(3) a pharmaceutical composition comprising the above described composition;

(4) a cosmetic method for the care and/or hydration of the skin, mucosa and/or scalp by applying the above described composition; and

(5) the preparation of the composition by mixing an aqueous phase and a lipid phase at 10-80 deg. C and homogenizing the mixture at 6 x 107-18 x 107 Pa.

USE - The **nanoemulsion** is useful as a cosmetic composition for the care, treatment and/or make-up of the skin and/or scalp, and the care and/or treatment of hair. The **nanoemulsion** is useful for preparing a dermatological composition for treating dry skin, or an ophthalmological composition.

ADVANTAGE - The **nanoemulsion** is storage stable, may contain a large amount of oil as well as keeping a good transparency and cosmetic properties.

Dwg.0/0

L28 ANSWER 9 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-414362 [36] WPIDS
DNC C2000-125648
TI **Nanoemulsion** comprising surfactant such as esters or ethers of fatty acid and sugar, and at least one oil with a molecular weight of more than 400, useful as cosmetic, dermatological or ophthalmological composition.
DC A96 B05 **D21** E19
IN LEGRET, S; SIMONNET, J; SONNEVILLE, O; SIMONNET, J T
PA (OREA) L'OREAL SA
CYC 30
PI EP 1010413 A1 20000621 (200036)* FR 12p
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
FR 2787027 A1 20000616 (200036)
JP 2000178130 A 20000627 (200036) 9p
CA 2292241 A1 20000614 (200044) FR
CN 1257704 A 20000628 (200050)
BR 9907330 A 20010206 (200111)
KR 2000048107 A 20000725 (200116)
ADT EP 1010413 A1 EP 1999-402836 19991116; FR 2787027 A1 FR 1998-15765 19981214; JP 2000178130 A JP 1999-352423 19991210; CA 2292241 A1 CA 1999-2292241 19991213; CN 1257704 A CN 1999-126145 19991213; BR 9907330 A BR 1999-7330 19991206; KR 2000048107 A KR 1999-57230 19991213
PRAI FR 1998-15765 19981214
AB EP 1010413 A UPAB: 20000801
NOVELTY - A **nanoemulsion** comprising a dispersed lipid phase in an aqueous phase with the lipid globules having an average size of less than 100 nm contains:

(1) a surfactant (solid at up to 45 deg. C) such as esters or ethers of fatty acid and sugar; and

(2) at least one oil with a molecular weight of more than 400, at a lipid phase/surfactant weight ratio of 2-10.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) a topical composition comprising the above described composition;

(2) an ophthalmic support comprising the above described composition;

(3) a pharmaceutical composition comprising the above described composition;

(4) a cosmetic method for the care and/or hydration of the skin, mucosa and/or scalp by applying the above described composition; and

(5) the preparation of the composition by mixing an aqueous phase and a lipid phase at 10-80 deg. C and homogenizing the mixture at 6 x 107-18 x 107 Pa.

USE - The **nanoemulsion** is useful as a cosmetic composition for the care, treatment and/or make-up of the skin and/or scalp, and the care and/or treatment of hair. The **nanoemulsion** is useful for preparing a dermatological composition for treating dry skin, or an ophthalmological composition (all claimed).

ADVANTAGE - The **nanoemulsion** is storage stable, may contain a large amount of oil as well as keeping a good transparency and cosmetic properties.

Dwg.0/0

L28 ANSWER 10 OF 10 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 1992-283883 [34] WPIDS
CR 1992-357634 [44]
DNC C1992-126262
TI Aq. cosmetic emulsion compsns. - comprising **quat.** **ammonium** functionalised phosphate ester, and cationic polysaccharide.
DC A96 D21 E11
IN CHENEY, M C; ZIEGLER, P D
PA (UNIL) UNILEVER PLC; (UNIL) UNILEVER NV; (CHEO) CHESEBROUGH PONDS USA CO; (CONO-N) CONOPCO INC
CYC 7
PI US 5135748 A 19920804 (199234)* 7p
CA 2061679 A 19920829 (199246)
TW 206917 A 19930601 (199339)
ZA 9201521 A 19931027 (199348) 42p
AU 655229 B 19941208 (199505)
JP 07014848 B2 19950222 (199512) 13p
CA 2061679 C 19970603 (199734)
KR 9701639 B1 19970213 (199934)
ADT US 5135748 A US 1991-662680 19910228; CA 2061679 A CA 1992-2061679 19920221; TW 206917 A TW 1992-101448 19920226; ZA 9201521 A ZA 1992-1521 19920228; AU 655229 B AU 1992-11356 19920228; JP 07014848 B2 JP 1992-43709 19920228; CA 2061679 C CA 1992-2061679 19920221; KR 9701639 B1 KR 1992-3150 19920228
FDT AU 655229 B Previous Publ. AU 9211356; JP 07014848 B2 Based on JP 04338312
PRAI US 1991-662680 19910228; US 1991-662880 19910228

AB US 5135748 A UPAB: 19991201
Aq. compsn. comprises 0.1-30% of a quat. NH4 functionalised phosphate ester (RCONH(CH2)3NMe2+CH2CHOHCH2O)3PO X3- (I), and 0.1-10% of a cationic polysaccharide (II) where: R = 5-17C alkyl, X = anion.

Pref. compsns. contain (by wt.) 1-5% (I), and 0.2-1% (II). (I) is present pref. as the main emulsifier and surfactant of the compsn. Pref. (II) are substd. with a quat. NH4 gp. having at least 1 12-22C alkyl (esp. lauryl, coco, and stearyl). Pref. emulsion contains (by wt.): 2.5% cetyl alcohol, 1.5% glyceryl monostearate, 2% i-Pr palmitate, 2% petrolatum, and Pr paraben as Phase (A); and 78.395% H2O, 10% glycerol, 0.25% '**Quatrisoft** LM-200' (RTM)-(II), 3% 'Monaquat P-TS'(RTM)-(I), 0.005% 'Antifoam AF' (RTM), 0.15% Me paraben, and 0.1% TiO2 as Phase (B).

USE/ADVANTAGE - The aq. emulsions are useful as cosmetic compsns. possessing improved skin moisture retention with a relatively low human tissue irritancy. In addn., the phases of the compsns. resist sepn. even under extended freeze-thaw cycli
Dwg.0/0